

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks, ~~in which method, for~~ comprising:

requesting access, via a mobile IP node, to a WLAN at an access point, a basic service area of the WLAN including one or more access points assigned to an access server;

authenticating, authentication, via a wireless interface within ~~a the~~ basic service area of ~~a the~~ WLAN, the a mobile IP node ~~requests~~ requesting access to the ~~WLAN at~~ an access point, ~~the basic service area of the WLAN including one or more access points assigned to an access server,~~ WLAN; and

transmitting from the mobile IP node, in which method, upon request from the access server, ~~the mobile IP node transmits~~ an IMSI stored on a SIM card of the mobile IP node to the access server, ~~and the IMSI of the mobile IP node is being stored~~ in a database of a SIM-RADIUS module,

wherein, characterized in that, based on the IMSI, ~~the logic a logical~~ IP data channel of the WLAN is user-specifically supplemented towards corresponding GSM data for signal and data channels of a GSM network by means of information stored in ~~an a~~ SIM user database, ~~in that~~

by means of a SIM gateway module, to perform ~~the authentication an~~ authentication of the mobile IP node, ~~the necessary SS7/MAP functions are generated based~~ on the GSM data, ~~in that,~~

by means of ~~a the~~ SIM user database and the SIM gateway module, the SIM-RADIUS module performs the authentication of the mobile IP node at ~~a an~~ HLR ~~and/or or a~~

VLR of ~~a~~ the GSM network, based on the IMSI of the SIM card of the mobile IP node, and ~~in~~ that

with successful ~~authentication~~ ~~a location update is performed at the HLR and/or VLR, and~~ authentication, (1) an authorization of the mobile IP node is performed, a corresponding user profile based on the IMSI being downloaded at the HLR and/or VLR, (2) the mobile IP node receives a corresponding entry in a customer database of the access server, and (3) the WLAN being is released for use by the mobile IP node.

2. (Canceled)

3. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 1, wherein, ~~characterized in that, for the authentication of~~ in authenticating the mobile IP node, the IMSI stored on the SIM card of the mobile IP node is only used up to one or more of the first authentication stages ~~and that for all further authentication stages the IMSI is then~~ replaced by a generated temporary IMSI.

4. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 1, wherein ~~characterized in that the authentication of~~ authenticating the mobile IP node is performed by means of an extensible authentication protocol.

5. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 1, wherein, ~~characterized in that the~~ a data stream of the mobile IP node is directed via a mobile radio network service provider during access to the WLAN from the access point.

6. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 5, wherein, ~~characterized in that, based on the authentication~~ authenticating by means of the IMSI, the

mobile radio network service provider issues ~~the a~~ corresponding service authorization for use of different services ~~and/or or~~ performs ~~the billing of the service availed of. a used~~ service.

7. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 1, wherein, ~~characterized in that~~ the SIM user database is connected to a sync module and a sync database for changing or deleting existing user datasets or for inserting new user datasets, ~~the a~~ comparison of ~~the~~ databases being carried out periodically ~~and/or or~~ initiated by changes in the sync database or through failure of the SIM user database.

8. (Currently Amended) The method ~~Method~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 1, wherein, ~~characterized in that,~~ by means of a clearing module 533 for ~~the~~ billing, ~~the~~ billing records of the heterogeneous WLANs are synchronized with the user data and processed based on ~~the~~ GSM-Standard TAP.

9. (Currently Amended) A system ~~System~~ for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks, ~~which system includes~~ comprising:

at least one WLAN, with a basic service ~~area in each case, which area, the~~ basic service area of ~~a WLAN~~ the at least one WLAN includes including one or more access points assigned to an access server, ~~which the one or more access points include including~~ a wireless interface for communication with at least one mobile IP nodes node, and which the at least one mobile IP nodes include an node including a SIM card for storage of an IMSI, ~~characterized,~~ IMSI; and

a SIM gateway module,

wherein the access server further comprises:

a SIM-RADIUS module that stores an IMSI database;

a SIM user database; and

a customer database;

~~in that the access server includes an SIM-RADIUS module with a database)~~
~~for storage of the IMSI, server, based on the IMSI and by means of~~ with information stored in
~~an SIM~~ the SIM user database, ~~the~~ supplements a logical IP data channel of the WLAN ~~being~~
~~supplemented~~ user-specifically towards GSM data for signal and data channels of a GSM
network, ~~in that the system includes an~~ and, via the SIM gateway module,
~~by means of which to perform the~~ an authentication of the mobile IP
~~node~~ node, necessary SS7/ MAP functions are ~~able to be~~ generated based on the GSM data,
and in that

by means of the SIM user database and the SIM gateway module, the SIM-
RADIUS module performs the authentication of the mobile IP node at an HLR or a VLR of
the GSM network, based on the IMSI of the SIM card of the mobile IP node, and ~~the access~~
~~server includes a customer database, in which~~

~~authenticated with successful authentication,~~ users of the WLAN can be
entered into the customer database by means of the SIM-RADIUS ~~module, during the entry a~~
~~location update of the IMSI of the mobile IP node being performed at the HLR and/or VLR.~~
module.

10. (Canceled)

11. (Currently Amended) The system ~~System~~ for automatic roaming between
heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 9, wherein,
~~characterized in that, for in~~ the authentication of the mobile IP node, the IMSI stored on the
SIM card of the mobile IP node is replaceable ~~in at least one of the authentication stages by a~~
temporary IMSI generated by means of a module.

12. (Currently Amended) ~~The system~~ System for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 9, ~~characterized in that~~ wherein the authentication of the mobile IP node can be performed by means of ~~the Extensible Authentication Protocol~~ an extensible authentication protocol.

13. (Currently Amended) ~~The system~~ System for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 9, ~~characterized in that~~ wherein the system includes of a mobile radio network provider via whom ~~the data~~ a data stream of the mobile IP node is able to be rerouted from the access point during access to the WLAN.

14. (Currently Amended) ~~The system~~ System for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 13, ~~characterized in that~~ wherein the mobile radio network provider includes ~~a authorization~~ an authorization module, which, based on the authentication by means of the IMSI, issues ~~the eorrespondinga~~ a corresponding service authorization for use of different services, ~~and/or~~ or includes a clearing system that carries out ~~the billing for the service availed of~~ of a used service.

15. (Currently Amended) ~~The system~~ System for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 9, further comprising ~~characterized in that the system includes~~ a sync module with a sync database, by means of which the SIM user database is connected for changing or deleting existing user datasets or for inserting new user datasets, ~~the a~~ a comparison of ~~the~~ the databases being carried out periodically ~~and/or~~ or initiated by changes in the sync database ~~and/or~~ or through failure of the SIM user database.

16. (Currently Amended) ~~The system~~ System for automatic roaming between heterogeneous WLANs and/or GSM/GPRS/UMTS networks according to claim 9, wherein,

characterized in that, by means of a clearing module~~533~~ for the billing, the billing records of the heterogeneous WLANs are able to be synchronized with the user data and ~~are able to be~~ processed based on the ~~GSM-standard~~ GSM-standard TAP.